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ERICSSON INC. 6300 LEGACY DRIVE M/S EVR 1-C-11 PLANO, TX 75024			EXAMINER MANOHARAN, MUTHUSWAMY GANAPATHY	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.

10/595,246

Applicant(s)

MALOMSOKY ET AL.

ExaminerMUTHUSWAMY G.
MANOHARAN**Art Unit**

2617

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 29 March 2006.
2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-30 is/are pending in the application.
4a) Of the above claim(s) _____ is/are withdrawn from consideration.
5) ☐ Claim(s) _____ is/are allowed.
6) ☒ Claim(s) 1-30 is/are rejected.
7) ☐ Claim(s) _____ is/are objected to.
8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
2) ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)
3) ☒ Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date _____
4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date _____
5) ☐ Notice of Informal Patent Application
6) ☐ Other: _____

DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1-3, 11 and 28-30 are rejected under 35 U.S.C. 102(e) as being anticipated by Sorokopud et al. (hereinafter Sorokopud) (US 2005/0058161) .

Regarding **claim 1**, Sorokopud teaches a method for performance management in a cellular mobile packet data network having a plurality of mobile stations linked to a plurality of base stations through a plurality of radio channels, the base stations being linked to a radio access network, and the radio access network being linked to a support node in a packet core network comprising the steps of:

capturing raw traffic traces over standardized interfaces of the operational cellular mobile data network; building a traffic and session database by parsing through the traces in order to extract and correlate all the information which is needed to the database (GPRS monitor in Figure 3A; Paragraphs [0030-0031]);

defining a set of appropriate key performance indicators (KPI), which can be used to characterize the performance of cells in terms of user perceived quality of service parameters; and calculating the set of appropriate key performance

indicators(Packet loss, latency, delays, capacity, Paragraph [0030-0031]; WAP parameters, Paragraph [0037]);

Regarding **claim 2**, Sorokopud teaches the method of claim, wherein the cellular mobile packet data network is a GPRS network ("GPRS monitoring, Paragraph [0034], Figure 3A).

Regarding **claim 3**, Sorokopud teaches the method of claim, wherein the step of capturing raw traffic traces over standardized interfaces of the operational cellular mobile data network relates to a Gb trace (Paragraph [0016]).

Regarding **claim 11**, Sorokopud teaches the method, wherein the step of defining a set of appropriate key performance indicators comprises a key performance indicator measuring WAP object download delay in a specified cell (paragraph [0037,0039])

Claim 28, 30 are rejected for the same reason as set forth in claim 1.

Regarding **claim 29**, Sorokopud teaches the system of claim 28, in which monitor node comprising a traffic and session database which correlates traffic and mobility information extracted from passively captured traces collected from standardized interfaces (Figure 3A).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the

invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claim 4 is rejected under 35 U.S.C. 103(a) as being unpatentable over Sorokopud et al. (hereinafter Sorokopud) (US 2005/0058161) in view over Bovo et al. (hereinafter Bovo) (US 2003/0148755).

Regarding **claim 4**, Sorokopud teaches the method , wherein the step of capturing raw traffic traces over standardized interfaces of the operational cellular mobile data network relates to a Gb trace (Figure 3A). Sorokopud did not teach specifically the method, wherein the step of capturing raw traffic traces over standardized interfaces of the operational cellular mobile data network relates to a Gr trace. However, Bovo teaches in an analogous art the method, wherein the step of capturing raw traffic traces over standardized interfaces of the operational cellular mobile data network relates to a Gr trace (Paragraph [0018]). Therefore, it would be obvious to one of ordinary skill in the art at the time of invention to use the method, wherein the step of capturing raw traffic traces over standardized interfaces of the operational cellular mobile data network relates to a Gr trace in order to manage subscriber activities.

Claim 5 is rejected under 35 U.S.C. 103(a) as being unpatentable over Sorokopud et al. (hereinafter Sorokopud) (US 2005/0058161) in view over Kavanagh (US 2003/0055954).

Regarding **claim 5**, Sorokopud teaches the method, wherein the step of capturing raw traffic traces over standardized interfaces of the operational cellular mobile data network relates to an encrypted Gb trace (Figure 3A). Sorokopud did not

teach specifically the method, wherein the step of capturing raw traffic traces over standardized interfaces of the operational cellular mobile data network relates to a a Gn trace. However, Kavanagh teaches in an analogous art the method, wherein the step of capturing raw traffic traces over standardized interfaces of the operational cellular mobile data network relates to a Gn trace (Paragraph [0043]). Therefore, it would be obvious to one of ordinary skill in the art at the time of invention to use the method, wherein the step of capturing raw traffic traces over standardized interfaces of the operational cellular mobile data network relates to a Gn trace in order to improve the network connectivity.

Claim 6 is rejected under 35 U.S.C. 103(a) as being unpatentable over Sorokopud et al. (hereinafter Sorokopud) (US 2005/0058161) in view over Satt et al. (hereinafter Satt) (US 2004/0248583).

Regarding **claim 6**, Sorokopud teaches the method , wherein the step of capturing raw traffic traces over standardized interfaces of the operational cellular mobile data network relates to a Gb, a Gi trace (Figure 3A). Sorokopud did not teach specifically the method, wherein the step of capturing raw traffic traces over standardized interfaces of the operational cellular mobile data network relates to a Gb, a Gi and a Remote Authentication Dial-in User Service (RADIUS) trace. However, Satt teaches in an analogous art , wherein the step of capturing raw traffic traces over standardized interfaces of the operational cellular mobile data network relates to a Gb, a Gi and a Remote Authentication Dial-in User Service (RADIUS) trace (Paragraph [0068]). Therefore, it would be obvious to one of ordinary skill in the art at the time of

invention to use a method , wherein the step of capturing raw traffic traces over standardized interfaces of the operational cellular mobile data network relates to a Gb, a Gi and a Remote Authentication Dial-in User Service (RADIUS) trace in order to provide traffic shaping of the data traffic on the network.

Claim 7 is rejected under 35 U.S.C. 103(a) as being unpatentable over Sorokopud et al. (hereinafter Sorokopud) (US 2005/0058161) in view over Satt et al. (hereinafter Satt) (US 2004/0248583) and Bovo et al. (hereinafter Bovo) (US 2003/0148755).

Regarding **claim 7**, the combination of Sorokoud and Satt teaches the method , wherein the step of capturing raw traffic traces over standardized interfaces of the operational cellular mobile data network relates to an encrypted Gb, Gi, RADIUS trace (as in claim 6, Sorokoud: figure 3A, Satt: Paragraph [0068]). The combination of Sorokoud and Satt did not teach specifically step of capturing raw traffic traces over standardized interfaces of the operational cellular mobile data network relates to an International Mobile Subscriber Identity (IMSI) numbers list. However, Bovo teaches in an analogous art step of capturing raw traffic traces over standardized interfaces of the operational cellular mobile data network relates to an International Mobile Subscriber identity (IMSI) numbers list (Paragraph [0018]). Therefore, it would be obvious to one of ordinary skill in the art at the time of invention to use the step of capturing raw traffic traces over standardized interfaces of the operational cellular mobile data network relates to an International Mobile Subscriber identity (IMSI) numbers list in order to manage subscriber activities.

Claim 8 is rejected under 35 U.S.C. 103(a) as being unpatentable over Sorokopud et al. (hereinafter Sorokopud) (US 2005/0058161) in view over Satt et al. (hereinafter Satt) (US 2004/0248583) and Kavanagh (US 2003/0055954).

Regarding **claim 8**, Sorokopud teaches the method , wherein the step of capturing raw traffic traces over standardized interfaces of the operational cellular mobile data network relates to a Gb, a Gi trace (Figure 3A). Sorokopud did not teach specifically the method, wherein the step of capturing raw traffic traces over standardized interfaces of the operational cellular mobile data network relates to a Gb, a Gi and a Remote Authentication Dial-in User Service (RADIUS) trace. However, Satt teaches in an analogous art , wherein the step of capturing raw traffic traces over standardized interfaces of the operational cellular mobile data network relates to a Gb, a Gi and a Remote Authentication Dial-in User Service (RADIUS) trace (Paragraph [0068]). Therefore, it would be obvious to one of ordinary skill in the art at the time of invention to use a method , wherein the step of capturing raw traffic traces over standardized interfaces of the operational cellular mobile data network relates to a Gb, a Gi and a Remote Authentication Dial-in User Service (RADIUS) trace in order to provide traffic shaping of the data traffic on the network.

The combination of Sorokopud and Satt teaches all the particulars of the claim except the step of capturing raw traffic traces over standardized interfaces of the operational cellular mobile data network relates to a a Gn trace. However, Kavanagh teaches in an analogous art the method, wherein the step of capturing raw traffic traces over standardized interfaces of the operational cellular mobile data network relates to a

Gn trace (Paragraph [0043]). Therefore, it would be obvious to one of ordinary skill in the art at the time of invention to use the method, wherein the step of capturing raw traffic traces over standardized interfaces of the operational cellular mobile data network relates to a Gn trace in order to improve the network connectivity.

Claim 9 is rejected under 35 U.S.C. 103(a) as being unpatentable over Sorokopud et al. (hereinafter Sorokopud) (US 2005/0058161) in view over Miernik et al. (hereinafter Miernik) (US 7177641).

Regarding **claim 9**, Sorokopud teaches all the particulars of the claim except the step of building a traffic and session database the database contains information about each and every user session and user transaction which happened during the measurement period. However, Miernik teaches in an analogous art, the step of building a traffic and session database the database contains information about each and every user session and user transaction which happened during the measurement period (col. 11, lines 61-67, col. 12, lines 1-4). Therefore, it would be obvious to one of ordinary skill in the art at the time of invention to use the method wherein the step of building a traffic and session database the database contains information about each and every user session and user transaction which happened during the measurement period in order to provide traffic shaping of the data traffic on the network.

Claim 10 is rejected under 35 U.S.C. 103(a) as being unpatentable over Sorokopud et al. (hereinafter Sorokopud) (US 2005/0058161) in view over Komandur et al. (hereinafter Komandur) (US 7327708).

Regarding **claim 10**, Sorokopud teaches all the particulars of the claim except the step of defining a set of appropriate key performance indicators comprises a key performance indicator measuring MMS large message download/send rate in a specified cell. However, Komandur teaches in an analogous art, the step of defining a set of appropriate key performance indicators comprises a key performance indicator measuring MMS large message download/send rate in a specified cell (abstract, col. 5, lines 11-34, "network performance monitoring information for multimedia services", col. 9, lines 28-35). Therefore, it would be obvious to one of ordinary skill in the art at the time of invention to use the method wherein the step of defining a set of appropriate key performance indicators comprises a key performance indicator measuring MMS large message download/send rate in a specified cell in order to control the media delivery on the network.

Claims 12 and 15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sorokopud et al. (hereinafter Sorokopud) (US 2005/0058161) in view over Jiang et al. (hereinafter Jiang)(US 2002/0044527).

Regarding **claim 12**, Sorokopud teaches all the particulars of the claim except wherein the step of defining a set of appropriate key performance indicators comprises a key performance indicator measuring Web small object download time in a specified cell, where the size of a small object is 9-11 kbyte. However, Jiang teaches in an analogous art the step of defining a set of appropriate key performance indicators comprises a key performance indicator measuring Web small object download time in a specified cell, where the size of a small object is 9-11 kbyte (Paragraph [0033]).

Therefore, it would be obvious to one of ordinary skill in the art at the time of invention to use the method wherein the step of defining a set of appropriate key performance indicators comprises a key performance indicator measuring Web small object download time in a specified cell, where the size of a small object is 9-11 kbyte in order to estimate the performance for channel usage.

Claim 15 is rejected for the same reason as set forth in claim 12. The applicant is providing additional use for the limitation so that one can estimate the performance for the POP3, mail down loads.

Claim 13, 14 and 16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sorokopud et al. (hereinafter Sorokopud) (US 2005/0058161) in view over Chamytelli et al. (hereinafter Chamytelli) (SU 2002/0194325).

Regarding **claim 13**, Sorokopud teaches all the particulars of the claim except the method, wherein the step of defining a set of appropriate key performance indicators comprises a key performance indicator measuring Web large object download rate in a specified cell, where the size of a large object is larger than 50 kbyte. However, Chamytelli teaches in an analogous art the method, wherein the step of defining a set of appropriate key performance indicators comprises a key performance indicator measuring Web large object download rate in a specified cell, where the size of a large object is larger than 50 kbyte (Paragraph [0041], Figure 5a,5b). Therefore, it would be obvious to one of ordinary skill in the art at the time of invention to use the method wherein the method, wherein the step of defining a set of appropriate key performance indicators comprises a key performance indicator

measuring Web large object download rate in a specified cell, where the size of a large object is larger than 50 kbyte in order to estimate the performance for channel usage.

Claims 14 and 16 are rejected for the same reason as set forth in claim 13. The applicant is providing additional use for the limitation so that one can estimate the performance for the POP3, mail down loads.

Claims 17-18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sorokopud et al. (hereinafter Sorokopud) (US 2005/0058161) in view over Sen et al. (hereinafter Sen) (US 6208620).

Regarding **claim 17**, Sorokopud teaches all the particulars of the claim except the step of defining a set of appropriate key performance indicators comprises a key performance indicator measuring end-to-end achievable throughput in a specified cell. However, Sen teaches in an analogous art, the step of defining a set of appropriate key performance indicators comprises a key performance indicator measuring end-to-end achievable throughput in a specified cell (col. 2, lines 9-15). Therefore, it would be obvious to one of ordinary skill in the art at the time of invention to use the method wherein the step of defining a set of appropriate key performance indicators comprises a key performance indicator measuring end-to-end achievable throughput in a specified cell in order to improve the TCP performance.

Regarding **claim 18**, Sen teaches the method, wherein the calculation of key performance indicator measuring end-to-end achievable throughput in a specified cell comprises the steps of: calculating total inbound traffic of the user, including other transactions, between the first data packet of the particular TCP connection and the

acknowledgement of the last data packet of the particular TCP connection: dividing the total inbound traffic (byte count) by the time elapsed between the first and last inbound data packet (col. 2, lines 9-15; col. 2, lines 51-56).

Claim 19 is rejected under 35 U.S.C. 103(a) as being unpatentable over Sorokopud et al. (hereinafter Sorokopud) (US 2005/0058161) in view over Johnson et al (hereinafter Johnson) (US 2003/0237016).

Regarding **claim 19**, Sorokopud teaches all the particulars of the claim except the step of defining a set of appropriate key performance indicators comprises a key performance indicator measuring the rate of TCP connections and stalled periods in a specified cell. However, Johnson teaches in an analogous art, the step of defining a set of appropriate key performance indicators comprises a key performance indicator measuring the rate of TCP connections and stalled periods in a specified cell (paragraph [0033]). Therefore, it would be obvious to one of ordinary skill in the art at the time of invention to use step of defining a set of appropriate key performance indicators comprises a key performance indicator measuring the rate of TCP connections and stalled periods in a specified cell in order to improve the TCP performance.

Claim 20 is rejected under 35 U.S.C. 103(a) as being unpatentable over Sorokopud et al. (hereinafter Sorokopud) (US 2005/0058161) in view over Yokoyma (US 2004/0243715).

Regarding **claim 21**, Sorokopud teaches all the particulars of the claim except the step of defining a set of appropriate key performance indicators comprises a key

performance indicator measuring the user-perceived throughput history in a specified cell. However, Yokoyama teaches in an analogous art, the step of defining a set of appropriate key performance indicators comprises a key performance indicator measuring the user-perceived throughput history in a specified cell (Paragraph [0128]). Therefore, it would be obvious to one of ordinary skill in the art at the time of invention to use step of defining a set of appropriate key performance indicators comprises a key performance indicator measuring the user-perceived throughput history in a specified cell in order to improve the TCP performance.

Claims 21-23 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sorokopud et al. (hereinafter Sorokopud) (US 2005/0058161) in view over Adam et al. (hereinafter Adam) (US 0048259).

Regarding **claim 20**, Sorokopud teaches all the particulars of the claim except the step of calculating the performance indicators is carried out by selecting an appropriate subset of the transactions in the traffic database. However, Adam teaches in an analogous art, the step of calculating the performance indicators is carried out by selecting an appropriate subset of the transactions in the traffic database (abstract). Therefore, it would be obvious to one of ordinary skill in the art at the time of invention to use the step of calculating the performance indicators is carried out by selecting an appropriate subset of the transactions in the traffic database in order to perform the statistical analysis of the gathered data.

Regarding **claim 22**, Sorokopud teaches all the particulars of the claim except the step of calculating the performance indicators is carried out by calculating the key

performance indicator value by summing the given Quality of Service measure of the selected individual transactions. However, Adam teaches in an analogous art, the step of calculating the performance indicators is carried out by calculating the key performance indicator value by summing the given Quality of Service measure of the selected individual transactions (abstract). Therefore, it would be obvious to one of ordinary skill in the art at the time of invention to use the step of calculating the performance indicators is carried out by calculating the key performance indicator value by summing the given Quality of Service measure of the selected individual transactions in order to perform the statistical analysis of the gathered data.

Regarding **claim 22**, Sorokopud teaches all the particulars of the claim except the step of calculating the performance indicators is carried out by calculating the key performance indicator value by averaging the given Quality of Service measure of the selected individual transactions. However, Adam teaches in an analogous art, the step of calculating the performance indicators is carried out by calculating the key performance indicator value by averaging the given Quality of Service measure of the selected individual transactions (abstract). Therefore, it would be obvious to one of ordinary skill in the art at the time of invention to use the step of calculating the performance indicators is carried out by calculating the key performance indicator value by averaging the given Quality of Service measure of the selected individual transactions in order to perform the statistical analysis of the gathered data.

Claim 24 is rejected under 35 U.S.C. 103(a) as being unpatentable over Sorokopud et al. (hereinafter Sorokopud) (US 2005/0058161) in view over Snyder

et al. (hereinafter) Snyder (US 2003/0134631) and Lau et al. (hereinafter Lau) (US 7466652).

Regarding **claim 24**, Sorokopud teaches all the particulars of the claim except the step of calculating the performance indicators contains the steps of reading the next transaction record from the traffic and session database; calculating the quantity defined by the KPI for the particular transaction; adding the value to an aggregation counter, and increasing the counter calculating the number of eligible transactions for the KPI; returning to the beginning until all the transactions are processed; calculating the KPI value by dividing the value of the aggregation counter with count of the eligible transactions. However, Snyder teaches in an analogous art the step of calculating the performance indicators contains the steps of reading the next transaction record from the traffic and session database; calculating the quantity defined by the KPI for the particular transaction; adding the value to an aggregation counter, and increasing the counter calculating the number of eligible transactions for the KPI; returning to the beginning until all the transactions are processed; calculating the KPI value by dividing the value of the aggregation counter with count of the eligible transactions (Figure 4, Paragraphs [0039-0041]). Therefore, it would be obvious to one of ordinary skill in the art at the time of invention to use the steps of reading the next transaction record from the traffic and session database; calculating the quantity defined by the KPI for the particular transaction; adding the value to an aggregation counter, and increasing the counter calculating the number of eligible transactions for the KPI; returning to the beginning until all the transactions are processed; calculating the KPI value by dividing

the value of the aggregation counter with count of the eligible transactions in order to estimate the reliable statistical information.

The combinations of Sorokopud and Snyder did not teach specifically checking whether this transaction is of the type, which the KPI is about; checking whether the transaction happened in the cell specified for the KPI. However, Lau teaches in an analogous art a step of checking whether this transaction is of the type, which the KPI is about; checking whether the transaction happened in the cell specified for the KPI ("traffic optimization procedures on a cell by cell basis"; Abstract; traffic call, col. 9, lines 40-60). Therefore, it would be obvious to one of ordinary skill in the art at the time of invention to use a step of checking whether this transaction is of the type, which the KPI is about; checking whether the transaction happened in the cell specified for the KPI in order to fine-grained quality of service in a mobile service environment.

Regarding **claim 25**, Lau teaches the method of claim 24, wherein the step of checking whether this transaction is of the type, which the KPI is about is carried out by using the flow type field of the transaction record (col. 9, lines 40-60)

Regarding **claim 26**, Lau teaches the method of claim 24, wherein the step of checking whether the transaction happened in the cell specified for the KPI is carried out by using the Cell Id field of the transaction record (abstract).

Regarding **claim 27**, Sorokopud teaches the method of claim 24, wherein the step of calculating the quantity defined by the KPI for the particular transaction uses the information elements of duration, timestamp of the first data packet, timestamp of

the last data packet, packet count and loss count fields of the transaction record (paragraph [0083]).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to MUTHUSWAMY G. MANOHARAN whose telephone number is (571)272-5515. The examiner can normally be reached on 7:00AM-2:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Eng George can be reached on 571-272-7495. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/George Eng/
Supervisory Patent Examiner, Art Unit 2617

